BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of Work :Modified Estimate For Improvements to roads & drain at 4th Cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte.

			Est. Cost Rs	15.00	Lakhs				
Sl.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	**Scarifying** bituminous course 50mm to 75 mm thick along with premix carpet/surface dressing by road roller attached with scarifier without disturbing the base & stacking the debris including cost of all labour charges complete as per specifications (PWD SR of 2014-15, P- 143, It.No.19.56)								
			1	122.00	4.10		**500.20**	27.00	**13505.00**
	Basic Rate	25.00							
	Add Area Weightage 8%	2.00							
	Total	**27.00**							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.138/I.19.1 PW, P & IWTD - SR 2014-15)	Cum							
			2	122.00	0.60	0.30	43.92		
							43.92	75.60	**3320.00**
	Basic Rate	70.00							
	Add Area Weightage 8%	5.60							
	Total	**75.60**							
3	**Removing B.S.Slab** of drain and stacking etc., complete Page No. 25/ Item No. 5.32/ PWD SR 2014-15	**Sqm**							
			2	122.00	0.90		219.60		
		Consider 60% Qty					131.76		
	Basic Rate	54.00					**131.76**	58.32	**7684.00**
	Add Area Weightage 8%	4.32							
	Total	**58.32**							
4	KSRB 4-1.3: Providing and laying in position **plain cement** concrete of mix M7.5 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2014-15)	Cum							

			2	122.00	0.50	0.15	18.30		
			4	122.00	0.20	0.15	14.64		
	Basic Rate	4488.00						4847.04	**0.00**
	Add Area Weightage 8%	359.04							
	Total	**4847.04**							
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix **M1:2:4 with cement** @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.6) PW, P & IWTD - SR 2014-15)	Cum							
			2	122.00	0.50	0.10	12.20		
			4	122.00	0.20	0.10	9.76		
	Basic Rate	4933.00					**21.96**	5228.98	**114828.00**
	Add Area Weightage 6%	295.98							
	Total	**5228.98**							
6	**Refixing stone slabs** of drains and pointing in CM 1:3 etc complete Page No. 25/ Item No.5.33/ PWD SR 2014-15	**Sqm**							
		Qty Vide Iteam No 3					**131.76**	75.60	**9961.00**
	Basic Rate	70.00							
	Add Area Weightage 8%	5.60							
	Total	**75.60**							
7	**Providing Granite slabs** selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 27 I. 5.31.1) Page No. 25/ Item No. 5.31.1/ PWD SR 2014-15	**Sqm**							
			2	122.00	-	0.90	**219.60**		
		Deduct Availabe Qty Vide Iteam No 2					**131.76**		
	Basic Rate	592.00					87.84	639.36	**56161.00**
	Area Weightage 8%	47.36							
	Total	**639.36**							
8	KSRB 5-14 : Providing and constructing precast **concrete solid blocks** with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size **40x20x20** cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25/ Item No. 5.27/ PWD SR 2014-15**	**Sqm**							
			2x2	122.00	0.40		195.20		
	Basic Rate	920.00					**195.20**	993.60	**193951.0**

	Add Area Weightage 8%	73.60								
	Total	**993.60**								
9	Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.	Sqm								
			2	122.00	0.90		219.60			
	Data Rates Approved by CE DZ enclosed						**219.60**	1600.00	**351360.00**	
10	Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2014-15, P.No.154, I No.20.18)									
	Roads		1	122.00	4.50	0.20	**109.80**	1438.56	**157954.00**	
	Basic Rate	1332.00								
	Add Area Weightage 8%	106.56								
	Total	**1438.56**								
11	Providing and applying **primer coat** with S.S. Bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2014-15, P.No.157, I No.21.6)									
			1	122.00	4.50		549.00			
	Basic Rate	32.60					**549.00**	34.56	**18971.00**	
	Add Area Weightage 6%	1.96								
	Total	**34.56**								
12	**Cleaning the existing** black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous tratement including cost of all materials, labour, HOM of machineries complete as per specificationsEngineer-in-charge of the work (PWDSR 2014-15, P.No.157, I No.21.2) .	Sqm								
			1	280.00	4.50	_	**1260.00**	3.02	**3810.00**	
	Basic Rate	2.80								
	Add Area Weightage 8%	0.22								

	Total	**3.02**							
13	Providing and applying **tack coat** on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (exlcuding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Engineer-in-charge of the work (PWDSR 2014-15, P.No.157, I No.21.7)	Sqm							
			1	280.00	4.50	_	**1260.00**	18.74	**23610.00**
	Basic Rate	17.35							
	Add Area Weightage 8%	1.39							
	Total	**18.74**							
14	Providing and laying **semi dense bituminous concrete** 25 - 30mm compacted thickness with 5% bitumen with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and ttandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects with 80 / 100 grade bitumen with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2014-15, P.No.159, I No. 21.20.2)	Cum							
			1	122.00	4.50	0.03	16.47		
			1	280.00	4.50	0.03	37.80		
	Basic Rate	9122.00					**54.27**	9851.76	**534655.00**
	Add Area Weightage 8%	729.76							
	Total	**9851.76**							
15	Carraige of Mixed Materials above 15 Km beyound 10Km to 15 Kmslead at P-168, d 15x4.90=73.50	Qty vide Item No 14					**16.47**	73.50	**1211.00**
16	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and	Cum							
			Qty Vide Item No. 2				**43.92**	78.24	**3436.00**
	Loading and Unloading Charges	62.20							
	Lead 4 KMs 2x1.28x4	10.24							
		72.44							
	Area Weightage @ 8%	5.80							
	Total	**78.24**							

17	Quality control Test Charges 1%								15000.00
18	Miscellaneous and UnforessenCharges								4088.00
								Total	1500000.00
(Rupees. Fifteen Lakhs Only)									

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary

2 The Estimate is prepared as per the PW,P & IWTD -SR-2014-15

3 The Provision made in estimate are adequate and essential.

4 This area comes under BBMP limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

CE/D.K/T.S

ನಂ. 31/15.16 . ದಿನಾಂಕ : 4.1.2016

ರೂ. ಟಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗದ

ವಲಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಮಳೆ

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾತ್ಪರ್ಯ ಮಂಜೂರು.

ಮುಖ್ಯ ಅಭಿಯಂತರರು

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ

ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.